

AUTHOR INDEX

- Aeed, P.A. 291
Ahmad, T. 211, 217
Albersheim, P. 9
Alföldi, J. 329
Altman, E. 347
Andersson, R. 211, 217
Auzanneau, F.-I. 195
- Baumann, H. 347
Bischoff, M. 111
Brade, H. 145
Brimacombe, J.S. 341
Bundle, D.R. 195, 347
- Cottaz, S. 341
- D'Ambra, A.J. 299
Darvill, A.G. 9
Defaye, J. 329
Diáñez, M.J. 239
Duben, A.J. 71
- Elhammer, Å.P. 291
Estrada, M.D. 239
- Feist, H. 315
Ferguson, M.A.J. 341
Fernández, R. 239
Forgó, P. 129
French, A.D. 51
Fuentes-Mota, J. 165
Fujii, N. 337
- Galbraith, L. 249
Gasch, C. 239
Gómez-Sánchez, A. 239
Gray, G.R. 299
Gurjar, M.K. 309
Györgydeák, Z. 305
- Harata, K. 83
Hashimoto, H. 179
Haupt, E.T.K. 119
- Hicks, K.B. 1
Hollander, T. 291
Holst, O. 145
Hotchkiss, Jr., A.T. 1
Hricovini, M. 71
Huang, D.-b. 37
- Jakab, S. 99
Jane, J.-I. 279
Jarchow, O. 119
Jeffrey, G.A. 37
Jiang, L. 63
- Kajihara, Y. 179
Kates, K.A. 9
Kitaoka, M. 355
Kobayashi, N. 337
Kodama, H. 179
Köll, P. 111, 119, 315
Koller, A.L. 9
Kong, F. 63
Kopf, J. 111, 169
Kovács, I. 99
Krülle, T. 145
- Leontein, K. 255
Li, G. 63
Linek, K. 329
Liu, J. 63
López-Barba, E. 165
López Castro, A. 239
Luger, P. 305
- Maness, N.O. 21
Molina Molina, J. 165
Morf, M. 111, 119
Mort, A.J. 21
Mouhous-Riou, N. 51
- Ogawa, S. 355
Olea, D.P. 165
Olsson, K. 211, 217
O'Neill, M.A. 9

Oscarson, S. 323

Pérez-Garrido, S. 239

Pérez, S. 51

Peseke, K. 315

Pitha, J. 83

Pusztahelyi, Z.Sz. 99

Qiu, F. 21

Rao, C.T. 83

Rendleman, Jr., J.A. 223

Robina, I. 165

Sasaki, K. 337

Sato, K.-i. 179

Schmidt, R.R. 145, 159

Shen, J.J. 279

Spiro, M.D. 9

Srinivas, N.R. 309

Sugiyama, H. 337

Szilágyi, L. 99, 129

Tajiri, A. 337

Taniguchi, H. 355

Temple, G.S. 249

Theander, O. 211

Tidén, A.-K. 323

Toepfer, A. 159

Tvaroška, I. 71

Vílchez, J.E. 239

Volpi, N. 263

Wakabayashi, T. 179

Westerlund, E. 217

Widmalm, G. 255

Wilkinson, S.G. 249

Winn, A.M. 249

Yokoyama, T. 337

Zimmer, B. 111, 119

SUBJECT INDEX

- 2-Acetamido-2-deoxy monosaccharides, determination of proton–proton distances from ^1H NMR relaxation measurements in solution, 129
- N*-Acetylglucosamine derivatives, a convenient synthesis from lactal, 159
- Agarose-gel electrophoresis, qualitative and quantitative analysis of “fast moving” and “slow moving” heparins, dermatan sulfate, and chondroitin sulfate by, 263
- 2-Amino-2-deoxyaldoses, a route to higher, by lengthening of the carbon chain of sugars by the $\text{CH}(\text{NO}_2) \cdot \text{CH}(\text{OEt})_2$ fragment, 239
- 1,2-Anhydro-3,4,6-tri-*O*-benzyl- β -D-talopyranose, the crystal structure and conformational analysis of substituted 2,7-dioxabicyclo[4,1,0]heptanes, 63
- Anion-exchange chromatography, high-performance, analysis of pectate lyase-generated oligogalacturonic acids by, with pulsed amperometric detection, 1
- Antigen from *Xanthomonas maltophilia* O19, structure of the, 249
- O-Antigen fragment, controlled acid hydrolysis of, yields univalent heptasaccharide haptens containing one 3,6-dideoxyhexose epitope, 347
- O-Antigen polysaccharide, structural studies of the *Escherichia coli* O127, 255
- Branched-chain sugars, use of methaniminium salts in syntheses of, 315
- Carba-disaccharide α -D-mannosidase inhibitor, an imino-linked, 341
- 5a-Carba-glucopyranose, a cellobiose phosphorylase from *Cellvibrio gilvus* recognizes only the β -D-form of, 355
- Carbon chain of sugars, a route to higher 2-amino-2-deoxyaldoses by lengthening by the $\text{CH}(\text{NO}_2) \cdot \text{CH}(\text{OEt})_2$ fragment, 239
- Cellobiose phosphorylase, from *Cellvibrio gilvus* recognizes only the β -D-form of 5a-carba-glucopyranose, 355
- Chlorodeoxy trisaccharides related to the *Shigella flexneri* Y polysaccharide, synthesis of, 195
- CMP-D-Neu5Ac-D-galactoside-(2 \rightarrow 6)- α -D-sialyltransferase, rat liver, characterization of inhibitory activities and binding mode of synthetic 6'-modified methyl *N*-acetyl- β -D-lactosaminide toward, 179
- Conformational analysis of methyl β -xylobioside, the: effect of choice of potential functions, 71
- Corn syrup solids by means of cyclododecanone as selective complexant, enhanced production of γ -cyclodextrin from, 223
- Crystal and molecular structure of threitol, 119
- Crystal and molecular structure of 2,3,4-tri-*O*-acetyl- β -D-arabinopyranosyl azide, 305
- Crystal and molecular structures of four heptitol heptaacetates, 111
- Crystal structure of 6-*O*-[(*R*)-2-hydroxypropyl]- and 6-*O*-[(*S*)-2-hydroxypropyl]-cyclomaltoheptaose, 83
- γ -Cyclodextrin from corn syrup solids by means of cyclododecanone as selective complexant, enhanced production of, 223
- 3-Deoxy-2-octulosonic acid derivatives and characterization of their 3-deoxyoctitols, synthesis of, 145
- 3,6-Dideoxyhexose epitope, controlled acid hydrolysis of an O-antigen fragment yields univalent heptasaccharide haptens containing one, 347
- Diglycosylamines in the arabinose, mannose, and rhamnose series, structure of glycosylamines and, 329
- 2,3-Dihydroxyacetophenone, formation from pentoses or hexuronic acids, 211
- 2,7-Dioxabicyclo[4,1,0]heptanes, the crystal structure and conformational analysis of substituted, 1,2-anhydro-3,4,6-tri-*O*-benzyl- β -D-talopyranose, 63
- Endopolygalacturonase, purification and characterization of biologically active (1 \rightarrow 4)-

- linked α -D-oligogalacturonides after partial digestion of polygalacturonic acid with, 9
- Enhanced production of γ -cyclodextrin from corn syrup solids by means of cyclododecanone as selective complexant, 223
- Escherichia coli* O127 O-antigen polysaccharide, structural studies of the, 255
- β -L-Fucopyranosyl and β -L-rhamnopyranosyl isothiocyanate, synthesis of 2,3,4-tri-O-benzoyl-, 165
- Gas-liquid chromatography with flame-ionization detection, molar-response factors for the quantitative analysis of fully methylated methyl 2-acetamido-2-deoxyhexopyranosides by, 299
- Gelatinization, internal structure of the potato starch granule revealed by chemical, 279
- Glycosaminoglycans, qualitative and quantitative analysis by agarose-gel electrophoresis, 263
- Glycosides of 3,6-di-O- and 3,4-di-O- α -D-mannopyranosyl- α -D-mannopyranose, syntheses of octyl and tetradecyl, 323
- Glycosylamines and diglycosylamines in the arabinose, mannose, and rhamnose series, structure of, 329
- Haptens, heptasaccharide, controlled acid hydrolysis of an O-antigen fragment yields univalent, containing one 2,6-dideoxyhexose epitope, 347
- Heparins (fast moving and slow moving), dermatan sulfate, and chondroitin sulfate, qualitative and quantitative analysis by agarose-gel electrophoresis, 263
- Heptakis (2,6-di-O-methyl)cyclomaltoheptaose complex in water, revised structure of the pyrene-1-carboxylic acid-, 337
- Heptitol heptaacetates, the crystal and molecular structures of four, 111
- Hexuronic acids or pentoses, formation of 2,3-dihydroxyacetophenone from, 211
- Hexuronic acids or pentoses, formation of reductive acid from, 217
- High-performance anion-exchange chromatography, analysis of pectate lyase-generated oligogalacturonic acids by, with pulsed amperometric detection, 1
- 6-O-[(R)-2-Hydroxypropyl]- and 6-O-[(S)-2-hydroxypropyl]-cyclomaltoheptaose, crystal structure, 83
- Imino-linked carba-disaccharide α -D-mannosidase inhibitor, an, 341
- Lactal, a convenient synthesis of *N*-acetylglucosamine derivatives from, 159
- β -D-Lactosaminide, synthetic 6'-modified methyl *N*-acetyl-, characterization of inhibitory activities toward rat liver CMP-D-Neu5Ac-D-galactoside-(2 \rightarrow 6)- α -D-sialyltransferase, 179
- Lengthening of the carbon chain of sugars by the $\text{CH}(\text{NO}_2) \cdot \text{CH}(\text{OEt})_2$ fragment, a route to higher 2-amino-2-deoxyaldoses by, 239
- (1 \rightarrow 4)-Linked α -D-oligogalacturonides, purification and characterization of biologically active, after partial digestion of polygalacturonic acid with endopolygalacturonase, 9
- Lipo-oligosaccharide from *Mycobacterium linda*, synthesis of the terminal trisaccharide unit of the, 309
- Mannopyranosides, a new route for 2,4-di-O-protection of, 323
- Mannopyranosyl- α -D-mannopyranose, syntheses of octyl and tetradecyl glycosides of 3,6-di-O- and 3,4-di-O- α -D-, 323
- α -D-Mannosidase inhibitor, an imino-linked carba-disaccharide, 341
- Methiniminium salts, syntheses of branched-chain sugars with, 315
- Methyl β -xylobioside, the conformational analysis of: effect of choice of potential functions, 71
- Microscopic protonation constants in tobramycin, an NMR and pH study with the aid of partially *N*-acetylated derivatives, 99
- Molecular and crystal structures of four heptitol heptaacetates, 111
- Molecular and crystal structure of threitol, 119
- Molecular and crystal structure of 2,3,4-tri-O-acetyl- β -D-arabinopyranosyl azide, 305
- Mycobacterium linda*, synthesis of the terminal trisaccharide unit of the lipo-oligosaccharide from, 309
- NMR and pH study of microscopic protonation constants in tobramycin, with the aid of partially *N*-acetylated derivatives, 99
- NMR relaxation measurements in solution, determination of proton-proton distances in 2-acetamido-2-deoxy monosaccharides, 129
- Nystose, computer modeling, 51
- Nystose trihydrate: crystal structure analysis and hydrogen bonding, 37
- 2-Octulosonic acid derivatives, synthesis of 3-deoxy-, and characterization of their 3-deoxyoctitols, 145
- Oligogalacturonic acids, analysis of pectate lyase-generated, by high-performance anion-exchange chromatography with pulsed amperometric detection, 1

- Oligosaccharide structures on bee venom phospholipase A₂, characterization of, 291
- Pectin, determination of the pattern of methyl esterifications in. Distributions of contiguous nonesterified residues, 21
- Pentoses or hexuronic acids, formation of 2,3-dihydroxyacetophenone from, 211
- Pentoses or hexuronic acids, formation of reductic acid from, 217
- Phospholipase A₂, bee venom, characterization of the oligosaccharide structures on, 291
- Phosphorylase, a cellobiose, from *Cellvibrio gilvus* recognizes only the β -D-form of 5a-carba-glucopyranose, 455
- Polygalacturonic acid, purification and characterization of biologically active (1 \rightarrow 4)-linked α -D-galacturonides after partial digestion of, with endopolygalacturonase, 9
- Polysaccharide from *Escherichia coli* O127, structural studies of the O-antigenic, 255
- Polysaccharide, *Shigella flexneri* Y, synthesis of chlorodeoxy trisaccharides related to the, 195
- Potato starch granule, internal structure revealed by chemical gelatinization, 279
- Proton-proton distances in 2-acetamido-2-deoxy monosaccharides, determination from ¹H NMR relaxation measurements in solution, 129
- Pyrene-1-carboxylic acid-heptakis (2,6-di-O-methyl)cyclomaltoheptaose complex in water, revised structure of the, 337
- Reductic acid, formation from pentoses or hexuronic acids, 217
- β -L-Rhamnopyranosyl and β -L-fucopyranosyl isothiocyanate, synthesis of 2,3,4-tri-O-benzoyl-, 165
- β -Rhamnopyranosylenamines, synthesis of partially protected, 165
- O-Specific polymer from *Xanthomonas maltophilia* O19, structure of the, 249
- Starch granule, internal structure of potato, revealed by chemical gelatinization, 279
- Structure of glycosylamines and diglycosylamines in the arabinose, mannose, and rhamnose series, 329
- Syntheses of branched-chain sugars with methinium salts, 315
- Synthesis of chlorodeoxy trisaccharides related to the *Shigella flexneri* Y polysaccharide, 195
- Tetrasaccharide nystose, computer modeling, 51
- Tetrasaccharide nystose trihydrate: crystal structure analysis and hydrogen bonding, 37
- Threitol, the crystal and molecular structure of, 119
- Tobramycin, an NMR and pH study of microscopic protonation constants with the aid of partially N-acetylated derivatives, 99
- 2,3,4-Tri-O-acetyl- β -D-arabinopyranosyl azide, crystal and molecular structure, 305
- Trisaccharide unit of the lipo-oligosaccharide from *Mycobacterium linda*, synthesis of the terminal, 307
- Trisaccharides, chlorodeoxy, related to the *Shigella flexneri* Y polysaccharide, synthesis of, 195
- Xanthomonas maltophilia*, structure of the O19 antigen of, 249



